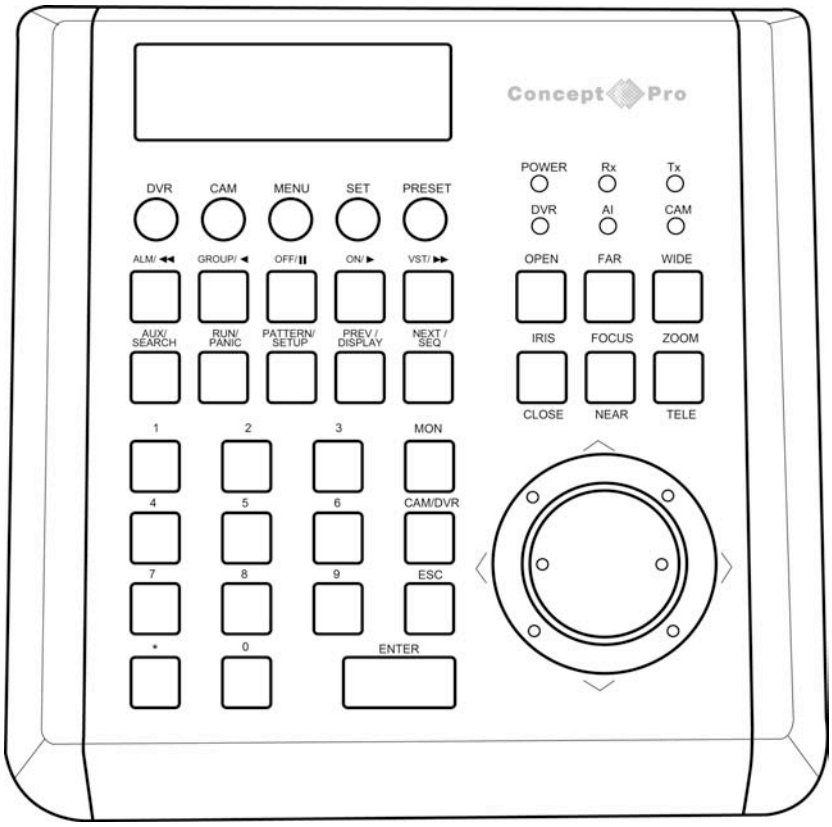
Concept Pro VA-KBDPRO+

3 Axis PTZ / DVR control keyboard

User Manual



Contents

Key features 1
Example System configuration 1
Operation modes 2
Getting started 2
Programming the keyboard
- Matrix setup 3
- DVR setup 3
- Camera Setup 4
- Key buzzer 5
- Key ID 5
- Key level 5
- Monitor range 5
- Camera range 5
- DVR range 5
- Change default password 5
- Reset factory defaults 5

Keyboard operation
- CAM mode 6
- DVR mode 7
- DVR / AI mode 7

Key features

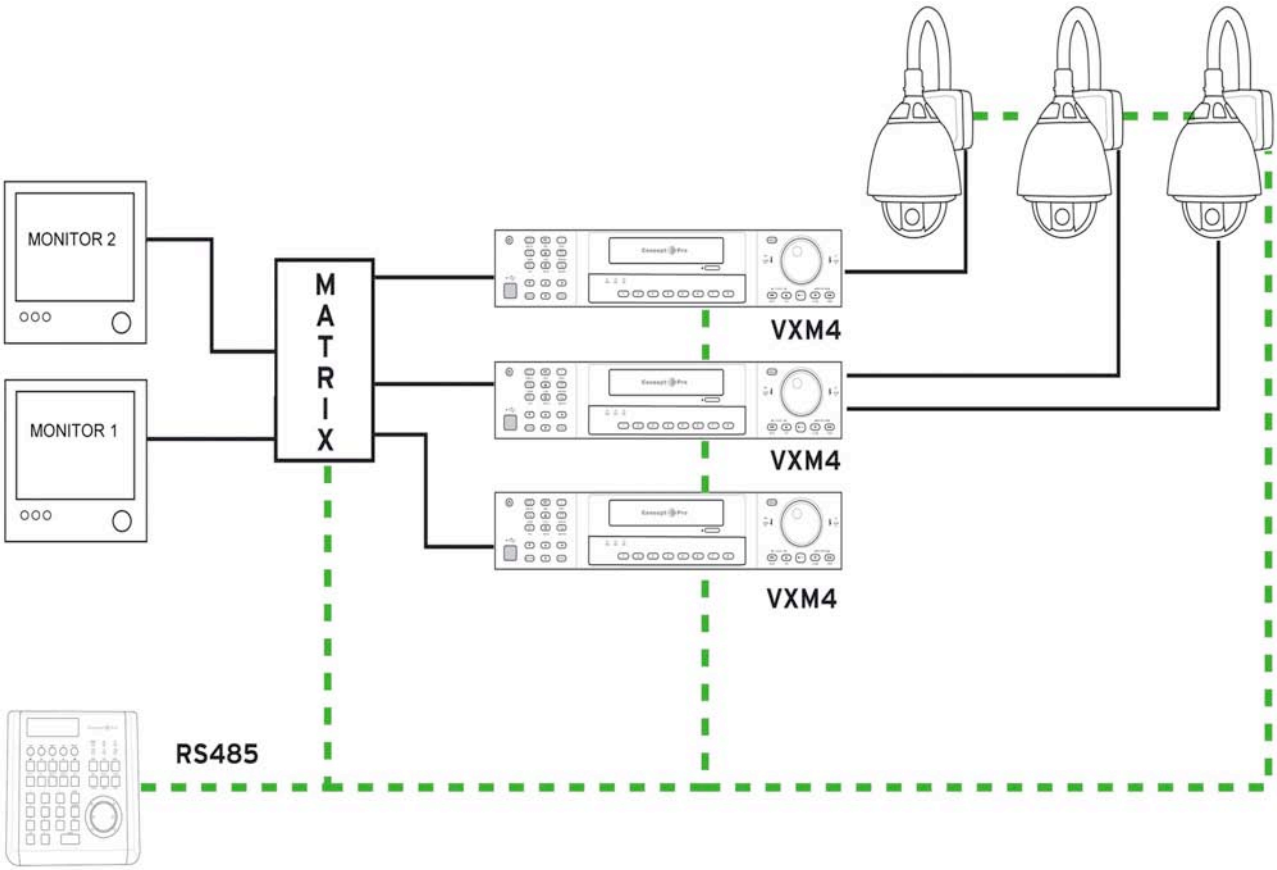
Flexible configuration
The VA-KBDPRO+ supports multiple telemetry protocols for compatibility with a wide range of PTZ devices. Protocols and baudrates can be set globally or individually for each PTZ ID

DVR control
The VA-KBDPRO+ is designed to control all the main functions of one or more Concept Pro VXM4 DVR systems

Matrix support
Concept Pro matrix systems can be used with the VA-KBDPRO+ for full camera / VXM4 input switching and monitor output control

Mixed mode (Associate ID) control
The VA-KBDPRO+ can be programmed to control specific PTZ IDs depending on which VXM4 ID and input channel is selected

Example system configuration



Operation modes

The VA-KBDPRO+ has 3 operating modes which are used depending on the system configuration

1. CAM mode

In CAM mode, the VA-KBDPRO+ functions as a standard PTZ telemetry controller.

The operator can select individual telemetry devices to control and can also access all features of those telemetry devices, such as presets, patterns, groups and menu setup.

If a Concept Pro matrix is connected, as each camera ID is selected, the matrix will automatically switch to the corresponding input.

Depending on the matrix configuration, multiple monitor outputs can also be controlled.

2. DVR mode

In DVR mode, the VA-KBDPRO+ is used to control all the key functions of one or more Concept Pro VXM4 digital recorders.

The operator can select individual VXM4s and select channels, choose display modes, playback footage or setup the DVR

If a Concept Pro matrix is connected, as each DVR ID is selected, the matrix will automatically switch to the corresponding input.

Depending on the matrix configuration, multiple monitor outputs can also be controlled.

3. DVR / AI mode

In DVR / AI mode, the VA-KBDPRO+ can control telemetry devices and VXM4 channel selection.

The operator chooses a DVR ID and a particular channel input to view full screen, and the VA-KBDPRO+ automatically selects the associated speed dome ID. This can then be controlled directly from the keyboard rather than the DVR front panel.

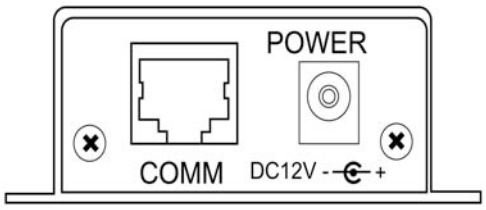
If a Concept Pro matrix is connected, as each DVR ID is selected, the matrix will automatically switch to the corresponding input.

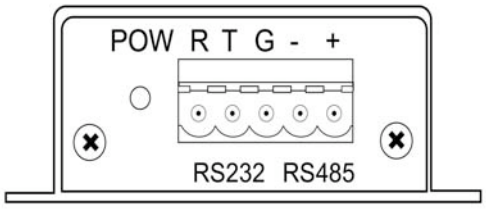
Depending on the matrix configuration, multiple monitor outputs can also be controlled.

Full DVR / AI mode operation must be programmed through the keyboard setup menu and is described on page 3

Getting started

Please note: all necessary connections must be made before applying power to the VA-KBDPRO+





- Connect the supplied CAT5 lead between the junction box and the VA-KBDPRO+
- Using the 5 way multi plug, connect '-' to the negative side of the telemetry line and '+' to the positive side
- If VXM4 control is required, RS485 telemetry must be connected to the VXM4 via its RS232 port using a VXM4-RS232CONV serial converter
- The RS232 connections on the VA-KBDPRO+ junction box are reserved and should not be used
- Connect power to the VA-KBDPRO+. The VA-KBDPRO+ performs its self test and displays the startup screen

```
VER30<01>
System Keyboard
```

Press the ***MENU*** key to begin normal operation – the default operation mode is CAM for normal control of PTZ devices

```
MONITOR     CAM
001         001
```

Programming the keyboard

To access the keyboard setup, press the ***MENU*** key – the keyboard will prompt for a password

```
PASSWORD:
  **********
```

Enter the default password of 9876543210 and press ***ENTER***. The setup menu is displayed

```
SET MATRIX:
>SET_PROTOCOL>
```

To navigate the menu, move the joystick up/down pressing ***ENTER*** to select menu items or ***ESC*** to exit menu items

Matrix setup
SET PROTOCOL

Enter the keyboard setup menu and use the joystick to highlight SET MATRIX. The cursor flashes next to SET_PROTOCOL

```
SET MATRIX:
>SET_PROTOCOL>
```

Press ***ENTER*** and then twist the joystick left / right to select the required protocol. Press ***ENTER*** to accept the new protocol setting or ***ESC*** to discard. If using a Concept Pro matrix system, the protocol should be set to T_VC

Matrix setup
SET BAUDRATE

Enter the keyboard setup menu and use the joystick to highlight SET MATRIX. The cursor flashes next to SET_PROTOCOL. Twist the joystick right to change the display to SET_BAUDRATE

```
SET MATRIX:
>SET_BAUDRATE>
```

Press ***ENTER*** and then twist the joystick left / right to select the required baudrate. Press ***ENTER*** to accept the new baudrate setting or ***ESC*** to discard. If using a Concept Pro matrix system, the baudrate should be set to 9600

DVR setup
SET BAUDRATE

Enter the keyboard setup menu and use the joystick to highlight SET DVR. The cursor flashes next to SET_BAUDRATE

```
SET DVR:
>SET_BAUDRATE>
```

Press ***ENTER*** and then twist the joystick left / right to select the required baudrate. Press ***ENTER*** to accept the new baudrate setting or ***ESC*** to discard. If using a Concept Pro VXM4, the baudrate should be set to 9600

DVR setup
SET ASSOCIATE

Enter the keyboard setup menu and use the joystick to highlight SET DVR. The cursor flashes next to SET_BAUDRATE. Twist the joystick right to change the display to SET_ASSOCIATE

```
SET DVR:
>SET_ASSOCIATE>
```

Press ***ENTER*** to display the set associate ID screen

```
ID:01      OUT:0001
CH:01      CAM:0001
```

ID:01 / OUT:0001 – If a Concept Pro matrix is connected, these two values determine which matrix channel (OUT) is switched for a particular DVR (ID).

For example, if a VXM4 with an ID of 7 is connected to matrix channel 2, set ID to 07 and OUT to 0002

CH:01 / CAM:0001 – if PTZ devices are connected to the DVR, these values specifiy which PTZ ID is connected to which DVR input channel.

For example, if a speed dome with ID 32 is connected to DVR input 7, set CH to 07 and CAM to 0032

Use the joystick to select the value and enter a new value using the numeric keypad. Press ***ENTER*** to save changes.

Camera setup
SET PROTOCOL

Enter the keyboard setup menu and use the joystick to highlight SET CAMERA. The cursor flashes next to SET_PROTOCOL

```
SET CAMERA:
>SET_PROTOCOL>
```

Press ***ENTER*** to display the SET PROTOCOL screen

```
ALL :>VC
0001:>VC
```

Protocols can be set globally or for each individual channel.

To set protocol globally, move the joystick up/down so that the cursor flashes on the '>' symbol next to ALL :

```
ALL :■VC
0001:>VC
```

Twist the joystick left / right to select the required protocol and press ***ENTER*** to confirm. Press ***ESC*** to return to the SET CAMERA menu

To set protocol for each individual channel, move the joystick up/down so that the cursor flashes on the '0' of 0001:

```
ALL :>VC
■001:>VC
```

Use the numeric keypad to enter the 4 digit camera ID to change, eg '0002'. The cursor now moves to protocol selection

```
ALL :>VC
0002:■VC
```

Twist the joystick left / right to select the required protocol and press ***ENTER*** to confirm. The ID automatically advances to the next number. Continue setting up protocols for all camera IDs as required and then press ***ESC*** to return to the SET CAMERA menu

Camera setup
SET BAUDRATE

Enter the keyboard setup menu and use the joystick to highlight SET CAMERA. The cursor flashes next to SET_PROTOCOL. Twist the joystick right to change the display to SET_BAUDRATE

```
SET CAMERA:
>SET_BAUDRATE>
```

Press ***ENTER*** to display the SET BAUDRATE screen

```
ALL :>9600
0001:>9600
```

Baudrates can be set globally or for each individual channel.

To set baudrate globally, move the joystick up/down so that the cursor flashes on the '>' symbol next to ALL :

```
ALL :■9600
0001:>9600
```

Twist the joystick left / right to select the required baudrate and press ***ENTER*** to confirm. Press ***ESC*** to return to the SET CAMERA menu

To set baudrate for each individual channel, move the joystick up/down so that the cursor flashes on the '0' of 0001:

```
ALL :>9600
■001:>9600
```

Use the numeric keypad to enter the 4 digit camera ID to change, eg '0002'. The cursor now moves to baudrate selection

```
ALL :>9600
0002:■9600
```

Twist the joystick left / right to select the required baudrate and press ***ENTER*** to confirm. The ID automatically advances to the next number. Continue setting up baudrates for all camera IDs as required and then press ***ESC*** to return to the SET CAMERA menu

Key Buzzer

The VA-KBDPRO+ has an internal key press buzzer which can be enabled or disabled as required. Enter the keyboard setup menu and use the joystick to highlight KEY BUZZER. The cursor flashes next to ENABLE BEEP

KEY BUZZER:
▒ENABLE BEEP

Twist the joystick left / right to toggle between ENABLE BEEP / DISABLE BEEP and press ***ENTER*** to confirm

Set Key ID

When multiple keyboards are used on the same matrix system, each keyboard must have a unique ID. Enter the keyboard setup menu and use the joystick to highlight SET KEY ID.

SET KEY ID:
▒01<01-63)

Use the numeric keypad to enter a KEY ID value and press ***ENTER*** to accept

Set Key Level

When multiple keyboards are used on the same matrix system, keyboards can be assigned a key level where 01 is the highest and 15 is the lowest. For example, a matrix operation performed by one operator cannot be changed by another operator unless they have a higher key level. Enter the keyboard setup menu and use the joystick to highlight SET KEY LEVEL.

SET KEY LEVEL:
▒01<01-15)

Use the numeric keypad to enter a KEY LEVEL value and press ***ENTER*** to accept.

Set monitor range

Enter the keyboard setup menu and use the joystick to highlight SET MON RANGE.

SET MON RANGE:
>▒00-239<000-239

Use the numeric keyboard to enter first and last values according to the number of monitors connected to the system, eg 001-009

Set camera range

Enter the keyboard setup menu and use the joystick to highlight SET CAM RANGE.

SET CAM RANGE:
>▒00-254<000-254

Use the numeric keyboard to enter first and last values according to the number of cameras connected to the system, eg 001-072

Set DVR range

Enter the keyboard setup menu and use the joystick to highlight SET DVR RANGE.

SET DVR RANGE:
>▒00-254<000-254

Use the numeric keyboard to enter first and last values according to the number of monitors connected to the system, eg 001-006

Change default password

The VA-KBDPRO+ default password can be changed to prevent unauthorised access. Enter the keyboard setup menu and use the joystick to highlight CHANGE PASSWORD.

CHANGE PASSWORD:
>▒876543210

Use the numeric keypad to enter a new 10 digit password and press *ENTER* to confirm

Reset factory defaults

Enter the keyboard setup menu and use the joystick to highlight RESET DEFAULT_I?

RESET DEFAULT_I?:
>▒******

Use the numeric keypad to enter the factory reset password of 0123456789 and press ***ENTER***

Keyboard operation
CAM mode

Please note that all the operation examples given here are for the Concept Pro VHSD-8XX series of speed domes. For any other type of PTZ equipment, reference should be made to its user manual for the appropriate command sequences.

To place the keyboard in to CAM mode, press the ***CAM*** button.

MONITOR **CAM**
001 **001**

To select a particular camera ID, press

CAM/DVR – XXX – ENTER

Where XXX is a numeric camera ID

To control the selected camera, move the joystick up/down/left/right – the further the joystick is moved, the faster the movement. Twist the joystick clockwise to zoom in and anti-clockwise to zoom out. The zoom level can also be controlled by pressing the ***WIDE*** and ***TELE*** buttons

Managing presets

To program a preset position, move the speed dome to the desired scene and zoom level and press ***SET – XXX – ENTER***, where XXX is a preset position between 1 and 128 (but note that preset 95 is reserved and cannot be used)

To move the speed dome to a preset position that's already been programmed, press ***PRESET – XXX – ENTER*** where XXX is a preset position between 1 and 128 (but note that preset 95 is reserved and cannot be used)

To clear a preset position from the speed dome memory, press ***ESC – XXX – ENTER*** where XXX is a preset position between 1 and 128 (but note that preset 95 is reserved and cannot be used)

Running pattern tours, variable speed tracking and group functions

To start a pattern tour, press ***PRESET –13X – ENTER***, where X is a predefined pattern tour number between 1 & 4

To start a VST function, press ***PRESET –14X – ENTER***, where X is a predefined VST function between 1 & 8

To start a group, press ***PRESET –15X – ENTER***, where X is a predefined group between 1 & 8

Using the speed dome setup menu

To enter the speed dome menu, press

PRESET – 95 – ENTER

To choose a menu item or change settings within a menu item, move the joystick up / down

To enter a menu item or confirm a new setting, press ***NEAR***

To exit a menu item or cancel a new setting, press ***FAR***

Please refer to the manual supplied with the speed dome for a detailed explanation of the menu setup procedures

Additional operations if a matrix is connected

When a particular camera ID is selected on the keyboard, the appropriate input on the matrix is automatically switched.

To start / stop a sequence, press the ***RUN*** key

To switch to the next camera, press the ***NEXT*** key

To switch to the previous camera, press the ***PREV*** key

When multiple monitors are connected, individual cameras can be displayed on different monitors.

To select the required monitor, press

MON – XXX – ENTER

And then select the required camera to be displayed on that monitor by pressing

CAM/DVR – XXX – ENTER

Keyboard operation DVR mode

Please note that this keyboard can only control the Concept Pro VXM4 range of DVRs

To place the keyboard in to DVR mode, press the ***DVR*** button repeatedly until only the yellow DVR LED is lit

MONITOR DVR
001 001

To select a particular DVR ID, press

CAM/DVR – XXX – ENTER

Where XXX is a numeric DVR ID

To select channels full screen, press ***XX – ENTER***, where XX is a channel number between 1 & 16.

The ***SEARCH, PANIC, SETUP, DISPLAY*** and ***SEQ*** buttons control the relevant functions of the VXM4

To navigate through the VXM4 on screen displays (eg during Setup and Search modes), move the joystick up / down / left / right and press ***ENTER*** and ***ESC*** to select or cancel items respectively.

To enter passwords (eg, during Setup and Search modes), the keyboard must be switched to numeric entry mode by pressing the * key

For example, when the VXM4 prompts for a password, the following key sequence should be used

*** - XXXX - * - ENTER,** where XXXX is the password

Note – the * key must be pressed after the password is entered to switch the keyboard back to normal operation

When the VXM4 is in playback mode, the five playback buttons and / or the joystick can be used to control playback as follows:

Select forward play – move the joystick right or press ▶

Select reverse play – move the joystick left or press

Pause playback – press ⏸

Increase forward / decrease reverse play speed – press ▶▶ or twist the joystick right

Decrease forward / increase reverse play speed – press ◀◀ or twist the joystick left

Additional operations if a matrix is connected

When a particular VXM4 ID is selected on the keyboard, the appropriate input on the matrix is automatically switched according to the DVR / Set Associate programming (page 3).

When multiple monitors are connected, individual VXM4s can be displayed on different monitors.

To select the required monitor, press

MON – XXX – ENTER

And then select the required VXM4 to be displayed on that monitor by pressing

CAM/DVR – XXX – ENTER

Keyboard operation DVR / AI mode

Please note that this keyboard can only control the Concept Pro VXM4 range of DVRs.

In DVR/AI mode only individual channels can be selected full screen. For full control of a VXM4, the standard DVR mode should be used (see opposite)

To place the keyboard in to DVR/AI mode, press the ***DVR*** button repeatedly until both the yellow DVR and green AI LEDs are lit

DVR:001 CH:01
MON:001 PTZ:001

To select a particular DVR ID, press

CAM/DVR – XXX – ENTER

Where XXX is a numeric DVR ID

To display an individual channel of the selected DVR full screen and take control of the associated speed dome, press ***XX – ENTER***, where XX is a channel number between 1 & 16.

As each channel is selected full screen, the PTZ value automatically changes according to the DVR / Set Associate programming (page 3)

Full control of the associated speed dome is then available, including programming and recalling presets, starting groups, tours, etc.

Additional operations if a matrix is connected

When a particular VXM4 ID is selected on the keyboard, the appropriate input on the matrix is automatically switched according to the DVR / Set Associate programming (page 3).

When multiple monitors are connected, individual VXM4s can be displayed on different monitors.

To select the required monitor, press

MON – XXX – ENTER

And then select the required VXM4 to be displayed on that monitor by pressing

CAM/DVR – XXX – ENTER